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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/733,084	12/11/2003	Michael Shullman	MCW001USU	8466
7590 06/10/2004			EXAMINER	
Gregory J. Battersby, Esq.			CARRILLO, BIBI SHARIDAN	
Grimes & Batte	ersby, LLP			
Third Floor			ART UNIT	PAPER NUMBER
488 Main Avenue			1746	
Norwalk, CT	06851			

Please find below and/or attached an Office communication concerning this application or proceeding.

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2) Notice 3) Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94 ation Disclosure Statement(s) (PTO-1449 or PTO/8 No(s)/Mail Date	⊦8)F	nterview Summary (PTO-413) aper No(s)/Mail Date lotice of Informal Patent Application (PTO other:	-152)
	Copies of the certified copies of the application from the International Bee the attached detailed Office action for	e priority documents ha Jureau (PCT Rule 17.2(ve been received in this National S a)).	Stage
· a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu	ments have been recei	ved.	
	nder 35 U.S.C. § 119			
10) 🖾 T	The specification is objected to by the Ex. The drawing(s) filed on 11 December 200 Applicant may not request that any objection Replacement drawing sheet(s) including the of The oath or declaration is objected to by the	23 is/are: a)⊠ accepter to the drawing(s) be held correction is required if the	n abeyance. See 37 CFR 1.85(a). drawing(s) is objected to. See 37 CF	R 1.121(d).
Application	on Papers	·		•
	Claim(s) is/are objected to. Claim(s) 1-15 are subject to restriction ar	nd/or election requireme	ent.	
	Claim(s) 15 is/are rejected.			
	Claim(s) is/are allowed.			
	4a) Of the above claim(s) 1-14 is/are with		on.	
· · ·	Claim(s) <u>1-15</u> is/are pending in the applic	cation		
Dienoeiti	on of Claims	,	•	
	closed in accordance with the practice up	•	•	· mens is
	Since this application is in condition for a			marite ie
	Responsive to communication(s) filed on This action is FINAL . 2b)	i <u>11 December 2003</u> . ☑ This action is non-fina	si .	
Status				
THE I - Exter after - If the - If NO - Failur Any r earne	MAILING DATE OF THIS COMMUNICAT MAILING MONTHS from the maling date of this communica SIX (6) MONTHS from the mailing date of this communica period for reply specified above, the maximum statutor, re to reply within the set or extended period for reply will, b eply received by the Office later than three months after the date term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, hower tion. s, a reply within the statutory min period will apply and will expire in y statute, cause the application to	ver, may a reply be timely filed mum of thirty (30) days will be considered timely SIX (6) MONTHS from the mailing date of this or become ABMONED (35 U.S.C. 5 133).	y. ommunication.
Period fo	IT REPLY ORTENED STATUTORY PERIOD FOR I	REPLVIS SET TO EYE	DIRE 3 MONTH(S) EDOM	
	The MAILING DATE of this communicati	on appears on the cover	sheet with the correspondence ad	dress
	_	Sharidan Carrillo		
	Office Action Summary	10/733,084 Examiner	SHULLMAN ET A	L.
		Application No.		

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-14, drawn to a robot, classified in class 700, subclass 245.
 - II. Claim 15, drawn to a method of washing a car, classified in class 134, subclass18.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the apparatus as claimed can be used to practice another method such as cleaning of storage tanks used in petrochemical plants and oil refineries. The apparatus as claimed can also be used to clean airport runways.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Mr.James Coplit on 5/27/04 a provisional election was made with traverse to prosecute the invention of Group II, claim15. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-14 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 15 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 is indefinite because it is unclear what one of ordinary skill in the art would consider as a high-powered water spray gun. It is also unclear what is sensing the presence of the car. The term "said sensor" lacks positive antecedent basis. The claim fails to recite a positive step of washing the car. Claim 15 is further indefinite because it is unclear whether you are washing the interior or exterior of the car.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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9. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue. 2.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 11. Claim15 is rejected under 35 U.S.C. 103(a) as being unpatentable over McGuire (6287389) in view of Ueno et al. (US2002/0007230).

McGuire teaches washing an automobile by spraying with a high pressure water jet from a nozzle 200 in mechanical engagement with a robotically controlled arm 101 (Fig. 1). In reference to sensing the presence of the car, McGuire teaches an array of imaging equipment 110 capable of mapping the areas of the automobile to a very high degree of accuracy. Once the automobile is scanned, selected areas of the automobile are sprayed with a high pressured water jet from the robotic arm.

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McGuire fails to specifically recite deactivating the spray gun when the car is not present. However, the fact that McGuire teaches scanning the car prior to spraying with the water jet suggests that the water jet is not operational until the car is present. One of ordinary skill in the art would have recognized the need to deactivate the water jet and the robotic arm when the car is not present since the car is a required element is order for spraying to occur.

McGuire fails to teach an anthropomorphic robot. Ueno et al. teach a robotic arm and further teaches the advantages of a movable type humanoid robot which can operate in an unlimited operational area, is movable along a predetermined or unlimited path and performs a predetermined or any operation on behalf of human beings so as to provide various wide services which replace those offered by live bodies.

It would have been obvious to a person or ordinary skill in the art to have modified the robotic arm of McGuire to include the humanoid robot, as taught by Ueno et al., for purposes of providing the advantages as previously discussed above.

Further, the modification of a robotic arm to that of an anthropomorphic robot represents an aesthetic design change. The court found that matters relating to ornamentation only which have no mechanical function cannot be relied upon to patentably distinguish the claimed invention from the prior art (MPEP 2144.04, In re Seid, 161F.2d 229, 73 USPQ 431 (CCPA 1947)).

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Coley teaches a wheel washing apparatus. Williams teaches a work booth for a robot. Kiba et al. teach a painting truck washing system. Crotts et al. teach a vehicle washing apparatus. Landry et al. teach cleaning a tank using a robotic vehicle. Moulder teaches cleaning

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tank cars. Kohut et al. teach a robotic vehicle servicing system. Wallach teaches a mobile robot.

Daum et al. teach cleaning the interior of a car using a robotic arm. Nishikawa teaches a robot for cleaning of a vehicle. Barker teaches an anthropomorphous robot for cleaning runways.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharidan Carrillo whose telephone number is 571-272-1297. The examiner can normally be reached on Monday-Friday, 6:00a.m-2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sharidan Carrillo Primary Examiner Art Unit 1746

bsc

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